



Find the Mean, Median, Interquartile Range and Mean Absolute Deviation of the set of numbers. If possible round to the nearest tenth.

Ex) 5, 6, 3, 6, 2  
 2, 3, 5, 6, 6  
 $Q1 = 2.5$   
 $Q3 = 6$

Mean = 4.4

Median = 5

I.Q.R. = 3.5

M.A.D. = 1.5

|          |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|
| Number   | 2   | 3   | 5   | 6   | 6   |
| Distance | 2.4 | 1.4 | 0.6 | 1.6 | 1.6 |

### Answers

Ex. 4.4 5 3.5 1.5

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

1) 1, 4, 6, 8, 7

2) 3, 7, 5, 4, 6, 7

3) 4, 7, 4, 9, 4, 6

4) 3, 1, 8, 5, 4, 2, 6

5) 4, 4, 1, 1, 8, 2, 9

6) 1, 6, 4, 6, 7, 3, 2, 3

7) 2, 8, 2, 6, 6, 8, 5, 7



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Answers

Ex) 5, 6, 3, 6, 2  
2, 3, 5, 6, 6  
Q1 = 2.5  
Q3 = 6

|              |          |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|
| Mean = 4.4   | Number   | 2   | 3   | 5   | 6   | 6   |
| Median = 5   | Distance | 2.4 | 1.4 | 0.6 | 1.6 | 1.6 |
| I.Q.R. = 3.5 |          |     |     |     |     |     |
| M.A.D. = 1.5 |          |     |     |     |     |     |

Ex. 4.4 5 3.5 1.5

1) 1, 4, 6, 8, 7  
1, 4, 6, 7, 8  
Q1 = 2.5  
Q3 = 7.5

|              |          |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|
| Mean = 5.2   | Number   | 1   | 4   | 6   | 7   | 8   |
| Median = 6   | Distance | 4.2 | 1.2 | 0.8 | 1.8 | 2.8 |
| I.Q.R. = 5   |          |     |     |     |     |     |
| M.A.D. = 2.2 |          |     |     |     |     |     |

1. 5.2 6 5 2.2

2) 3, 7, 5, 4, 6, 7  
3, 4, 5, 6, 7, 7  
Q1 = 4  
Q3 = 7

|              |          |     |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|-----|
| Mean = 5.3   | Number   | 3   | 4   | 5   | 6   | 7   | 7   |
| Median = 5.5 | Distance | 2.3 | 1.3 | 0.3 | 0.7 | 1.7 | 1.7 |
| I.Q.R. = 3   |          |     |     |     |     |     |     |
| M.A.D. = 1.3 |          |     |     |     |     |     |     |

2. 5.3 5.5 3 1.3

3) 4, 7, 4, 9, 4, 6  
4, 4, 4, 6, 7, 9  
Q1 = 4  
Q3 = 7

|              |          |     |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|-----|
| Mean = 5.7   | Number   | 4   | 4   | 4   | 6   | 7   | 9   |
| Median = 5   | Distance | 1.7 | 1.7 | 1.7 | 0.3 | 1.3 | 3.3 |
| I.Q.R. = 3   |          |     |     |     |     |     |     |
| M.A.D. = 1.7 |          |     |     |     |     |     |     |

3. 5.7 5 3 1.7

4) 3, 1, 8, 5, 4, 2, 6  
1, 2, 3, 4, 5, 6, 8  
Q1 = 2  
Q3 = 6

|              |          |     |     |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|-----|-----|
| Mean = 4.1   | Number   | 1   | 2   | 3   | 4   | 5   | 6   | 8   |
| Median = 4   | Distance | 3.1 | 2.1 | 1.1 | 0.1 | 0.9 | 1.9 | 3.9 |
| I.Q.R. = 4   |          |     |     |     |     |     |     |     |
| M.A.D. = 1.9 |          |     |     |     |     |     |     |     |

4. 4.1 4 4 1.9

5) 4, 4, 1, 1, 8, 2, 9  
1, 1, 2, 4, 4, 8, 9  
Q1 = 1  
Q3 = 8

|              |          |     |     |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|-----|-----|
| Mean = 4.1   | Number   | 1   | 1   | 2   | 4   | 4   | 8   | 9   |
| Median = 4   | Distance | 3.1 | 3.1 | 2.1 | 0.1 | 0.1 | 3.9 | 4.9 |
| I.Q.R. = 7   |          |     |     |     |     |     |     |     |
| M.A.D. = 2.5 |          |     |     |     |     |     |     |     |

5. 4.1 4 7 2.5

6) 1, 6, 4, 6, 7, 3, 2, 3  
1, 2, 3, 3, 4, 6, 6, 7  
Q1 = 2.5  
Q3 = 6

|              |          |   |   |   |   |   |   |   |   |
|--------------|----------|---|---|---|---|---|---|---|---|
| Mean = 4     | Number   | 1 | 2 | 3 | 3 | 4 | 6 | 6 | 7 |
| Median = 3.5 | Distance | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 3 |
| I.Q.R. = 3.5 |          |   |   |   |   |   |   |   |   |
| M.A.D. = 1.8 |          |   |   |   |   |   |   |   |   |

6. 4 3.5 3.5 1.8

7) 2, 8, 2, 6, 6, 8, 5, 7  
2, 2, 5, 6, 6, 7, 8, 8  
Q1 = 3.5  
Q3 = 7.5

|              |          |     |     |     |     |     |     |     |     |
|--------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| Mean = 5.5   | Number   | 2   | 2   | 5   | 6   | 6   | 7   | 8   | 8   |
| Median = 6   | Distance | 3.5 | 3.5 | 0.5 | 0.5 | 0.5 | 1.5 | 2.5 | 2.5 |
| I.Q.R. = 4   |          |     |     |     |     |     |     |     |     |
| M.A.D. = 1.9 |          |     |     |     |     |     |     |     |     |

7. 5.5 6 4 1.9